

FINAL REPORT

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A REVIEW OF THE LITERATURE AND A SELECTED
BIBLIOGRAPHY OF PUBLISHED AND UNPUBLISHED
LITERATURE ON MARINE BIRDS OF ALASKA

By

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CONTENTS

	<u>Page</u>
Introduction	
General Information	
1. Published Information	
2. Unpublished Information	
Birds of the Arctic Ocean Coast	
1. Published Information	
2. Unpublished Information	
Birds of the Bering Sea and Coast	
1. Published Information	
2. Unpublished Information	
Birds of the Gulf of Alaska and Coast	
1. Published Information	
2. Unpublished Information	
Birds of Southeast Alaska	
1. Published Information	
2. Unpublished Information	
Conservation Issues.	
Selected Bibliography	
Part I: Published References on Birds of Coastal Alaska.	
Part II: Unpublished References on Birds of Coastal Alaska.	
Part III: References on Birds in Marine Waters Adjacent to Alaska Coastal Waters and General References on Marine Birds and Hazards to them.	

INTRODUCTION

Alaska's wildlife resources and pristine character have long attracted naturalists, sportsmen, and adventurers. Alaska's juxtaposition to Asia, its arctic, subarctic, and alpine habitats, and its relative remoteness and primitiveness when compared with the "lower 48" were and still remain factors attracting ornithologists hopeful of finding pleasure, satisfaction and perhaps even fame from their efforts. Both federal and state agencies, universities, and the private sector have conducted and sponsored many studies of birds in Alaska for often diverse reasons. These general and specific interests in Alaska's wildlife have generated considerable ornithological information of which much has been published and recorded in administrative and manuscript reports.

This report contains a bibliography of more than 900 references published before and during 1976 on birds of the coastal and marine environment, with emphasis being on those birds from Alaska and adjacent areas. We have also made a cursory review of some of that information. The purpose of this document is to facilitate the identification of literature that is of regional and topical importance **in** describing coastal and marine avifaunas and in assessing impacts upon those **avifaunas** from whatever causes.

The bibliography is divided into three parts:

Part I. Published references on birds of coastal Alaska

Part II. Unpublished references on birds of coastal Alaska

Part III. References on birds in marine waters adjacent to
Alaskan coastal waters and general references on
marine birds and hazards to them.

Parts I and II are annotated as to regional relevance by use of a numeric code. Figure I and Table 1 provide reference to the area annotations.

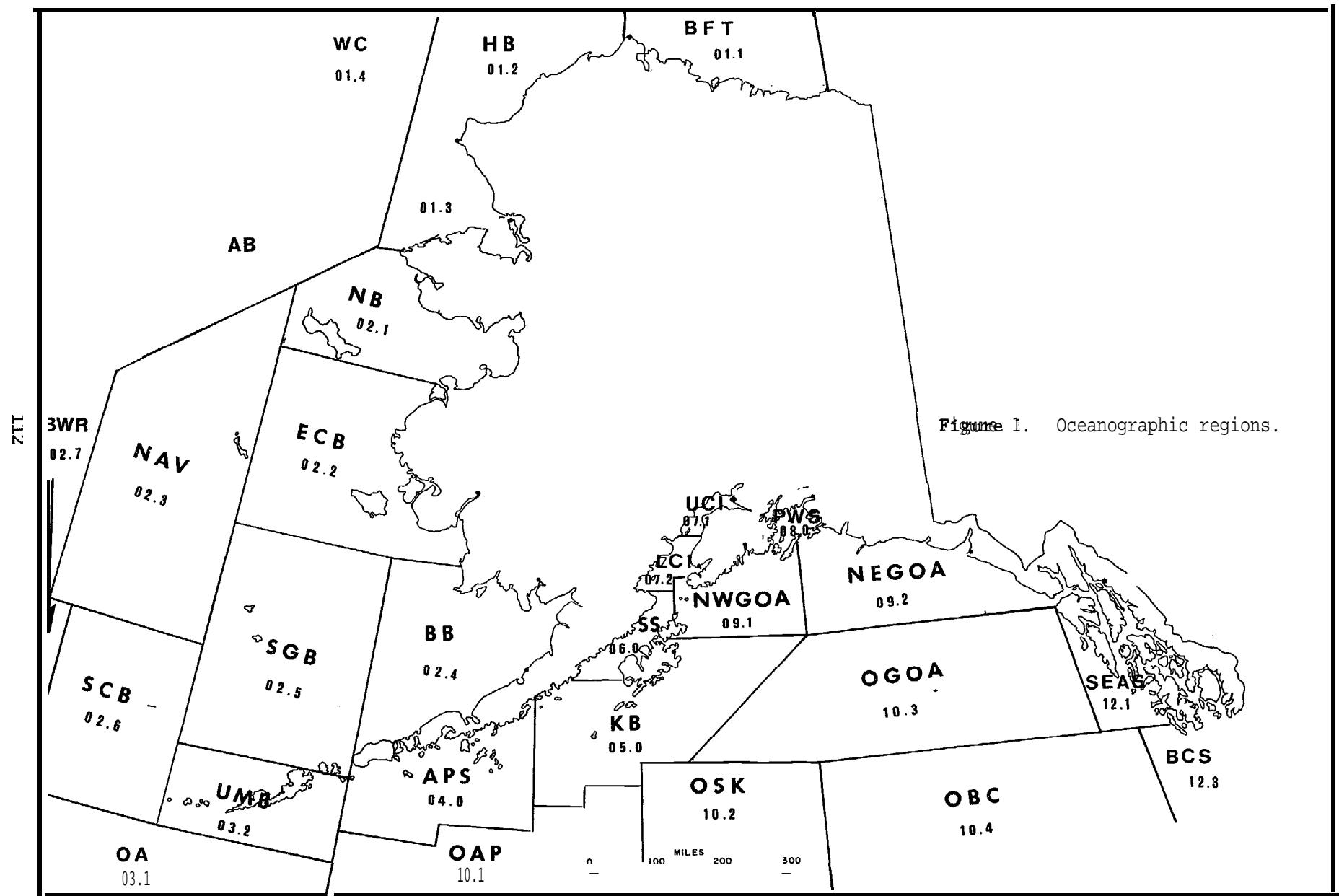


Table 1. Numeric codes for oceanographic regions used in annotations to bibliographic citations.

00.0	Statewide - General
01.0	Arctic Ocean
01.1	Beaufort Basin (BFT)
01.2	Northern Chukchi (NC)
01.3	Hope Basin (HB)
01.4	Western Chukchi (WC)
01.5	Anadyrskly Basin (AB)
02.0	Bering Sea
02.1	Norton Basin (NB)
02.2	East Central Bering Sea (ECB)
02.3	Navarin Basin (NAV)
02.4	Bristol Bay Basin (BB)
02.5	St. George Basin (SGB)
02.6	South Central Bering Sea (SCB)
02.7	Bower's Bank (BWR)
03.0	Aleutians
03.1	Oceanic Aleutians (OA)
03.2	Umnak Basin (UMB)
04.0	Alaska Peninsula South (APS)
05.0	Kodiak Basin (KB)
06.0	Shelikof Strait (SS)
07.0	Cook Inlet
07.1	Upper Cook Inlet (UCI)
07.2	Lower Cook Inlet (LCI)
08.0	Prince William Sound (PWS)
09.0	Gulf of Alaska
09.1	Northwest Gulf of Alaska (NWGOA)
09.2	Northeast Gulf of Alaska (NEGOA)
10.0	Sub-arctic North Pacific
10.1	Oceanic Alaska Peninsula South (OAPS)
10.2	Oceanic South Kodiak (OSK)
10.3	Oceanic Gulf of Alaska (OGOA)
10.4	Oceanic British Columbia
11.0	North Pacific
11.1	North Pacific Transitional (NPT)
11.2	Oceanic Washington (OW)
11.3	Oceanic Oregon (OO)
11.4	Oceanic Northern California (ONC)
11.5	Oceanic Central California (OCC)
11.6	Oceanic Southern California (OSC)
12.0	Shelf
12.1	Southeast Alaskan Shelf (SEAS)
12.2	Alaskan Inland Waterway (AIW)
12.3	British Columbia Shelf (BCS)
12.4	British Columbia Inland Waterway (BCIW)
12.5	Washington Shelf (WS)
12.6	Oregon Shelf (OS)
12.7	Northern California Shelf (NCS)
12.8	Central California Shelf (CCS)
12.9	Southern California Shelf (SCS)
13.0	Kodiak (Inshore)

Although our delineation of the areas (Fig. 1) can correctly be regarded as being arbitrary, our intention is to facilitate information retrieval for both recognized oceanographic regions as well as those areas of the outer continental shelf that are being considered **for** petroleum exploration and possible production.

The bibliography is called "selected" because we recognize the likelihood of our omitting significant published literature. Although we used electronic date reference systems, including Fish and Wildlife Reference Service (Denver Public Library), BIOSIS, NTIS, Ocean Abstracts, and Dissertation Abstracts, to assist in our bibliographic search, we found visual searches of key references and such periodicals as Condor, Arctic, Canadian Field-Naturalist, Auk, Murrelet, and others, proved far more productive from the standpoint of both numbers of citations and thoroughness of the search.

Because of the nature of unpublished material (i.e., often irregularly appearing, nonserialized, limited distribution, not undergoing the rigors of editorial and peer group review), we have in this report barely scratched the surface of the body of unpublished information on birds of coastal Alaska. Much of the information cited herein comes from our personal familiarity with the material. The possible weaknesses in the bibliography from that standpoint are obvious. Since "unpublished references" can constitute about anything a person chooses to include, we have been arbitrary in that which we have included and excluded.

We believe that this document will assist persons interested in marine birds and their well-being and will provide a base for building what may someday approach being a "complete" rather than "selected" bibliography.

The nature of the "discovery" and later exploration of Alaska, provided more opportunities to describe the coastal and marine components of the avifauna than it did for the interior. Pearse (1968) and Stresemann (1948) provide modern-day interpretations to those sometimes not very illuminating glimpses of the **avifauna** as reported by naturalists, seamen, tradesmen, and explorers of the late 18th and early 19th centuries.

The thrust in ornithological investigations began in Alaska shortly after the territory was purchased from Russia in 1867 and continued through the 1920's. Museums, individuals, the Department of the Army, the Treasury Department, the Department of Agriculture, and others sponsored expeditions and maintained stations from which came much of the ornithological information that we use to measure changes in the status of some species. For obvious reasons of economy and war, the 1930's and early 1940's saw little significant work on Alaska's birds. Since then there has been a continuing increase in both the number and the quality of investigations. Systematic assessments of certain waterfowl populations have been conducted annually since 1947. Occasional spurts to general government and university support of studies has come from the National Science Foundation as in the case of the Tundra Biome

studies, the Atomic Energy Commission for studies at Amchitka and Cape Thompson, the petroleum industry for studies related to routing of pipelines, and the Bureau of Land Management for studies of the outer continental shelf.

8

GENERAL INFORMATION ON ALASKAN BIRDS

Published Information

Gabrielson and Lincoln's (1959) "The Birds of Alaska" unquestionably is the single most significant literature on Alaska avifauna. This work has influenced the nature of ornithological investigations in the state for the past two decades and will likely continue to do so even after others improve on it. Their accounts of the 321 species then known to compromise Alaska's avifauna include theretofore unpublished information and summaries of published literature. Their bibliography is perhaps as important to students of ornithology as their species accounts. As Director of the U.S. Fish and Wildlife Service, Gabrielson had easy access to much of that agency's unpublished information and because of Lincoln's bibliophilic nature, most of the information in existence at that time was included within their bibliography. Persons who are unfamiliar with this work are cautioned that the species accounts often list only a portion of those relevant citations found in the bibliography.

Bent (1919-1926), Dement'ev, et al. (1951, 1952), Palmer (1962, 1972), Cottam (1939), Delacour (1954-1964), Bellrose (1976), Kozlova (1957), and Shuntov (1972) are general references which contain considerable information about marine and coastal birds in Alaska.

Unpublished Information

The unpublished information on birds of coastal and marine Alaska may exceed numerically that which has been published. For the most part, it contains more quantitative assessments of avian populations from which changes in status can be measured than that which has been published.

King and Lensink (1971) quantitatively describe waterfowl populations and habitats within various regions of the state and list marine bird colonies by location. Lensink (1969) analyzed band recoveries from white-fronted geese banded within the state and elsewhere. Timm (1972, 1974-76] and Timm and Haven (1973) reported on various investigations of waterfowl within the state and included population and harvest estimates of waterfowl in certain coastal areas. The U.S.D.I.'s (1973) proposal for Alaska Coastal National Wildlife Refuges contains theretofore unpresented information on ~~Q~~arine bird colonies and populations at sea within proposal areas at or near Cape **Lisburne** to those proposal areas on the southeastern coast of the Kenai Peninsula.

BIRDS OF THE ARCTIC OCEAN AND COAST

Published Information

Much of Arctic Alaska's ornithological investigations has been done at or near Point Barrow. Being the "end of the line" for man and bird alike, Point Barrow has attracted ornithologists, in part, because of the tendency for birds that have wandered beyond their normal range to find their way there and, in part, because of the above average facilities, conveniences and transportation for this region that were associated with first the whaling stations, then the military, and now the Naval Arctic Research Laboratory. Petroleum development to the east has resulted in a recent, almost **commensal**, eastward shift in ornithological studies.

Two important reviews of Alaska's arctic **avifauna** are those of Bailey (1948) and **Pitelka** (1974), wherein most of the theretofore information is summarized and the qualitative status of birds is described. In an atlas of general information on Arctic Alaska, **Selkregg** ([1975]) maps various **avian** habitats, ascribes relative and absolute values for various populations, and includes a selected bibliography on birds which is not altogether duplicative of either Bailey (1948) or **Pitelka** (1974). Portenko (1973) describes the bird populations on the Asiatic side of the **Chukchi Sea**.

Intensive studies near Barrow by **Pitelka**, Holmes, Maher, Norton, **Maclean**, and others, individually and in collaboration

(various dates for each author) has done much to characterize the behavior, productivity, and ecological requirements of certain sandpipers and, in part, explain cyclical relationships between certain birds and their mammalian prey. Quantitative assessments of bird populations at Cape Thompson (Williamson, et al. 1966, Swartz 1966), Little Diomede (Kenyon and Brooks 1960), and Point Storkersen (Bergman, et al. 1977) provide bases from which changes in the status of birds can be measured.

Information on abundance, distribution, and ecological requirements of birds in the seldom explored, ice-covered Arctic Ocean were reported by Swartz (1967), Watson and Divoky (1972, 1975), Frame (1973), Divoky (1975, 1976). Flock (1972, 1973, 1974, 1975) contributed to this small body of knowledge with his radar studies of bird migration along the coast from the Bering Strait to near the U.S.-Canadian border.

Unpublished Information

Reviews of ornithological studies on the Arctic Slope are given by Bartonek (1969) and A.I.N.A. (1974) and the former report contains some original data.

Avifauna of the Arctic National Wildlife Range has been treated in refuge narrative reports by Thayer (1971-1975) and Schmidt (1976), a reconnaissance report by Thayer (1966), a summer long study of coastal birds by Schmidt (1970), "wilderness" study

reports (U.S.D.I. 1972, 1973), and extensions to the range through "d-2" legislation (U.S.D.I. 1973), and in reports describing Arctic Gas Pipeline's proposed routes across the Range (Gunn and Livingston 1974a,b,c, Gunn et al. 1974, Schweinsberg 1974, Tull, et al. 74).

BIRDS OF THE BERING SEA AND COAST

Published Information

Selkregg's ([1976]) all encompassing atlas cursorily treats birds of this region and includes a map delineating by density certain waterfowl populations and a selected bibliography of **avian** literature. The early works **by Nelson** (1883, 1887) and Turner (1886) give a broader, although understandably incomplete, description of the region's avifauna than does any single modern day writing with the exception of Gabrielson and Lincoln (1959).

Comparatively little has been published on the **avifauna** of southern Seward Peninsula and Norton Sound. Although Bailey (1943, 1948) reported on birds in the Bering Strait south to Fairway Rock, a majority of his efforts were northward along the **Chukchi** coast. Nelson (1883, 1887) traveled throughout the region studying the **avifauna** and the anthropology of Eskimos. **Grinnell** (1900) at Nome, McGregor (1902) **along** the Koyuk River, Hersey (1917) and Turner (1886) in the vicinity of St. Michael, Cade (1952) at Sledge Island, and Drury (1976) for the Nome to **Golovin** coast provide essential but nonetheless fragmentary examples of the regional **avifauna**.

The major contributions of Freidmann (1932), Fay and Cade (1959), Fay (1961), Bedard (1969a,b,c,), Scaly (1967-1971), Thompson (1967) and others are treated in the important review paper by Scaly, et al. (1971) on the **avifauna** of St. Lawrence

Island and various **zoogeographical** relationships. Papers published subsequently are largely those by Scaly (various dates), Scaly and Bedard (1974), Johnson (1974), and Johnson and West (1975) .

Cursory accounts have been published on St. Matthew and Hall Island's **avifauna** by Elliot (1882), Bent (1919, 1922), Gabrielson and Lincoln (1959), **Hanna** (1917), Klein (1959) and **McRoy**, et al. (1971) .

On that portion of the Arctic Coastal Lowlands being developed for petroleum, reports of the **avifauna** and their habitats have been reported by the **U.S.D.I.** (1970, 1972) for the field in general and the pipeline route specifically, Hall (1971) for **Oliktok** Point, Shepherd (1960) for black **brant** nesting in the **Coleville** River delta, Abraham (1975), **Bartels** (1973), Bergman (1974a,b), and Howard (1974) for the Point Storkersen area, and **Schamel** (1974, 1976) for the offshore Egg Island.

Some of the unpublished accounts of birds near Barrow are those by MacLean (1969) and Norton (1970, 1973) on shorebirds, which in part have been published, by **Myres** (1958, 1960) on the taxonomy and ecology of eiders, and by Johnson (1971) and Timson (1975) in assessment of the migration and economic use of eiders.

Various **U.S.D.I.** (1973) proposals for the Alaska Coastal and **Selawik** National Wildlife Refuges, Cape **Kruzenstern** National Monument, **Chukchi-Imuruk** National Wildlands, and **Chamisso** National Wildlife Refuge (**U.S.D.I.** 1970) wilderness designations contain important reviews of the **avifauna** and habitats and includes some original data.

Principally, the waterfowl along the north side of the Seward Peninsula have been the subject of various unpublished accounts by Hansen, et al. (1959), Nelson and Shepherd (1955), Scott (1949), and Thayer (1951). Kessel (1968) developed a checklist of birds for the Seward Peninsula.

Shipboard surveys of birds in the Arctic Ocean are reported by Burns (1973), Divoky (1972), Gould (1976d), Kirchhoff and Rauzon (1976), and Sowls (1975). Aerial surveys of birds in this region are reported by Bailey (1975), Barry (1974), Bartels (1971), Lensink, et al. (1976), Searing and Richardson (1975), and Searing, et al. (1976).

Rich in both numbers and diversity, the avifauna of the Yukon-Kuskokwin delta has been treated only part and parcel in the published literature. Nelson (1883, 1887), Turner (1886), Conover (1926), Brandt (1943), Gabrielson and Lincoln (1959), Williamson (1957), Hansen and Nelson (1957), Kessel, et al. (1964), Harris (1966), Springer (1966), Klein (1966), Holmes (1970, 1973), Lensink (1973), King (1973), and Michelson (1975) have published about birds in this area. Only Swarth (1934) has published on the avifauna of nearby Nunivak Island.

Murie (1959) summarized the body of information on birds within the Bristol Bay area, including the Alaska Peninsula. The north shore of Bristol Bay, including Cape Newenham, Cape Peirce, and the Walrus Islands were given only cursory attention by early ornithologists (e.g., Turner 1886). More recently are published

accounts of investigations in the lowlands near Lake Iliamna
(Williamson and Peyton (1962, Gibson 1970) and Izembek Lagoon
(Jones 1964, 1965, 1970, Jones and Jones 1966, Bailey 1973,
1974a,b, 1975, Bailey and Davenport 1972).

The **avifauna** of the Pribilof Islands has been described by Coues (1874), Elliot (1882), Palmer (1899), Hanna (1918), Preble and McAtee (1923), Kenyon and Phillips (1965), Thompson (1973) and others. Preble and McAtee (1923) provided the first substantive information on the food habits of some of those marine birds.

Murie (1959) **also** summarized the information on birds of the Aleutian Islands, including the important contributions by Dan (1873, 1874), Turner (1886), McGregor (1906), Cahn (1947), and others. Following Murie's review, greater descriptions of the **avifauna** are reported for Amchitka (e.g., Kenyon 1961, 1962, Emison, et al. 1971, White 1975), Adak (Byrd, et al. 1974), Bogoslof (Byrd and Divoky 1976), and efforts to **re-establish** the endangered Aleutian Canada goose on Buldir have been described (Byrd and Springer, 1976, King, et al. 1976).

Birds of the open ocean have not been overlooked by ornithologists. Anecdotal accounts of birds observed in the Bering Sea and in the North Pacific Ocean adjacent to the Aleutians have been reported by Reichenow (1909), Clark (1910), Laing (1924), Jaques (1930), Arnold (1948), Kenyon (1950), Kuroda (1955, 1960), Ryder (1957), and Irving, et al. (1970). The relative abundance and distribution of birds at sea was stressed by Shunsov (1961, 1962, 1963, 1966, 1972), Bartonek and Givson (1972), and King, et al. (1975). A meager beginning to understanding the **trophic** relationships among birds is discussed by Sanger (1972), Bartonek, et al. (1974), and Ogi and Tsujita (1975, 1976).

Unpublished Information

As with the published literature there has been little other than shipboard and aerial surveys of the Norton Sound region.

U.S.D.I. (1973) discusses seabird colonies at Fairway Rock, King Island, Sledge Island, Bluff, and Egg Island and makes mention of other in the area.

Information on seabirds of St. Lawrence Island in theses by Bedard (1967) and Scaly (1968, 1972) have largely been published. Stephenson (1970) reports on the island's foxes using seabirds as food.

Annual narrative reports for the Clarence Rhode National Wildlife Range and Nunivak National Wildlife Refuge (e.g., King 1963, Lensink and Hout 1968, Hout 1966) provide substantive new information on all aspects of birds of the Yukon-Kuskokwim region and adjacent Nunivak Island. Dau (1972), Gillham (1941), Jones and Kirchhoff (1976), and the U.S.D.I.'s (1973) proposal for a Yukon Delta National Wildlife Refuge contribute general ornithological information. Intensive studies of birds on the delta have been reported by Boise (1976) for sandhill cranes, Dau (1974) for spectacle eiders, Eisenhauer, et al. (1971), Eisenhauer and Kirkpatrick (1975), and Headley (1966, 1967) for emperor geese, Mickelson (1973) primarily for cackling Canada geese, Shepherd (1960) for brant, Olson (1950, 1954) for goose and brant production, and Peterson (1976) for red-throated loons. General water-

fowl investigations including bandings are reported by Nelson (1951), Nelson and Scott (1956), and Nelson et al. (1951). Birds of Nunivak Island are reported in narrative accounts by Spencer (1952, 1967) and proposals for wilderness designation (U.S.D.I. 1972, 1973).

The birds of St. Matthews Island are described by Klein (1967) and within the U.S.D.I.'s (1967) review of the Bering Sea National Wildlife Refuge for wilderness status designation.

King (1966) described the avifauna of the Cape Newenham region in a report which was, in part, instrumental in that area being designated by Congress as the Cape Newenham National Wildlife Refuge. A larger area and its avifauna is described in the U.S.D.I. (1973) proposal for the Togiak National Wildlife Refuge. Lensink and Hout (1970), Hout (1971, 1972), Dick and Dick (1971), and Sigman (1976) describe the avifauna of the region, but primarily in the vicinity of Cape Peirce.

Miller (1972) describes the rich avifauna of Round Island in the Walrus Islands.

Avifauna of the lowlands along the southern shore of Bristol Bay are described by U.S.D.I. (1973) for the proposed Iliamna National Resource Range, Gill (1977) for the Port Moller-Herendeen Bay-Nelson Lagoon complex, and various narrative reports (e.g., Bailey 1973) of the Izembek National Wildlife Refuge for Izembek Lagoon, Cold Bay, and Unimak Island. Jones (in press) described various ecological relationships of birds to Izembek Lagoon. McRoy (1966) in his description of the world's largest eel-grass bed describes its importance to birds.

Sekora (1973) in his wilderness study report on the Aleutian Islands described the **avifauna** and cataloged many unreported seabird colonies. Birds on **Bogoslof Island** (U.S.D.I. 1967) and **Unimak Island** (U.S.D.I. 1971, 1972) are described in wilderness status reports. Byrd (1974) reports on activities, including bird studies, by staff of the Aleutian Islands National Wildlife Refuge. **Wehle** (1975) investigated the food habits of puffins on **Buldir Island**. **Childs** (1967), Kenyon (1966), Williamson and Emison (1969) and McCann (1963) contributed to the ornithological information on **Amchitka Island**. Harrison and Hatch (1975) and Phillips (1976) monitored bird migration through Unimak Pass from vantage points at Cape Sarichef and Scotch Cap.

Shipboard observations of birds within the Bering Sea and westward through the Aleutian Islands have been reported by Baird (1976a), Benson and Timson (1975a), Gould (1976a, b), Harrison and Hatch (1975), Hatch (1975), Hatch and **Rauzon** (1975), Henderson (1975a, b), Henderson, et al. (1975), King, et al. (1974), Kirchhoff and **Rauzon** (1975), Lensink and Bartonek (1976), Nysewander (1975, 1976), Phillips (1976), Rauzon (1975, 1976a, b, c), Rauzon and **Ruehle** (1975), **Sowls** (1975), Trapp (1975), Warner (1975), and Warner and **Guzman** (1975). Aerial surveys in this region include those reported by Bailey (1975), King and McKnight (1969), Lensink, et al. (1976), and Montgomery (1972).

BIRDS OF THE GULF OF ALASKA AND COAST

Published Information

There has been no published account that treats specifically the Gulf of Alaska, i.e., from **Unimak Island** eastward to **Cape Fairweather**. **Selkregg** ([1975, 1976]) in two regional profiles delineates waterbird habitats on maps and includes selected bibliographies of the major published and unpublished sources of information. LeResche and Hinman (1973), in an atlas which contained the first published state-wide catalog of marine bird colonies, provided limited information as to the location, **size**, and species composition of colonies in the region.

Bendire (1895), **Bent** (1919-21), **Murie** (1959), **Gabrielson** and **Lincoln** (1959), **Kenyon** (1964), **Cahalane** (1944, 1959), and **Narver** (1970) provide fragmentary information on birds of the coast and islands of the south side of the Alaska Peninsula.

The **avifauna** of Kodiak has fared better in published accounts than has the mainland across **Shelikof Strait**. **Bretherton** (1896), **Friedmann** (1935), **Cahalane** (1943), **Dearborn** (1957) reported on birds in general, while **Hensel** and **Troyer** (1964) and **Troyer** and **Hensel** (1965) reported on bald eagles and **Mossman** (1958) reported on glaucous-winged gulls preying on salmon.

The avifauna of the Cook **Inlet-Kenai** Peninsula area has been described in part by **Osgood** (1901), **Figgins** (1904), **Williamson** and

Peyton (1959, 1963), Williamson, Peyton and **Isleib** (1965), and Hemming (1966). Bailey (1976a, b) has described the birds of the Barren Islands which lie at the entrance to Cook Inlet.

Prince William Sound and the adjacent Copper River delta have been described for birds by Grinnell (1910), Hansen (1962), **Yocom** (1962) and **Kessel**, et al. (1967). **Isleib** and **Kessel** (1972) summarize the works of these and others studying birds in the region and make a significant contribution by estimating the numbers of birds seasonally using the region. Rausch (1968) and O'Farrell and Sheets (1962) describe the birds of Middleton Island prior to the earthquake of 1964 which altered both the physiography and bird populations of the island.

Observations of birds at sea within the Gulf of Alaska have been reported by Kurochkin (1963), Shuntov [1964, 1966, 1968, 1972], **Sanger** (1972a, b, 1973, 1974), **Wahl** (1976) and others.

Unpublished Information

The U.S.D.I. (1972), in its assessment of marine transportation of petroleum from Valdez to various ports, described the marine birds of the North Pacific Ocean from the Gulf of Alaska south to and including California and presented a catalog of bird colonies for the same area.

The **avifauna** of the coast and offshore islands along the south side of the Alaska Peninsula has fared better with unpublished information than with that which was published. **Sowl** (1973) and **Vailey** (1973) report on the location, size and composition of many previously unreported colonies. The U.S.D.I. (1973) proposal for Alaska Coastal National Wildlife Refuges described colonies within this area as well as around the Kodiak coast, the Barren Islands , and on the southeastern coast of the Kenai Peninsula. Moe (1976) for a portion of the **Shumagin** Islands, Power (1976a, b) and **Wehle** (1976) for **Ugaiushak** Island, and Hatch (1976) for **Chowiet** Island , reported on the local summer **avifauna**, stressing population estimates and species biology.

Dick (1976) and Dick, et al. (1976) describe colonies and ecological requirements and production of seabirds around Kodiak Island. **Atwell** (1975) in an annual narrative report of the Kodiak National Wildlife Refuge describes wintering bird populations in coastal waters.

The bird populations of the Barren Island have been reported by Roseneau (1965), U.S.D.I. (1973), and Manuwal and Boersma (1976) .

The kittiwake colonies of Chisik Island in lower Cook Inlet was described by Snarski (1973, 1974). Quimby (1972) described birds summering on Chickaloon Flats. King (1968) estimated populations of trumpeter swans in coastal lowlands adjacent to Cook Inlet. Timm (1972, 1974-1976) and Timm and Haven (1973) provide population and harvest information of waterfowl in the Cook Inlet area.

Information on birds within Prince William Sound are provided by U.S.D.I. (1973), Haddock and Benson (1975), Lyon, et al. (1954), and McRoy and Stoker (1969). Wohl (1976) made winter observations of birds about Middleton Island.

Mickelson (1973) reviews information on birds in the Copper River delta, and he (Mickelson 1974) reports on a survey of birds on Egg Island. The dusky Canada geese specifically and waterfowl in general have been the subject of many investigations including those of Shepherd (1959, 1960), Trainer [1959], Olson (1954), King (1968), and Bromley (1976).

Shipboard observations of birds within the Gulf of Alaska include those of Baird (1976a), Benson and Timson (1975), DeGange (1977), Dick, et al. (1976), Forsell (1976a, b), Frazer and Hardy (1976), Gould (1976a, b, c, d, e, f), Gould and Rauzon (1976), Handel (1975), Handel and Benson (1975), Hardy and Nysewander

(1976), Harrison (1976a, b), Harrison and Hatch (1975), Hatch (1975, 1976), Hatch and Rauzon (1975), Hatch and Timson (1975), Henderson (1975a, b), Henderson, et al. (1975), **Isleib** and **Eberhardt** (1975), King, et al. (1974), **Kirchhoff** (1975), **Kirchhoff** and **Rauzon** (1975), Lensink and Bartonek (1976), Nysewander (1975, 1976), Phillips (1976), Phillips, et al. (1976), **Rauzon** (1975, 1976a, b, c), Rauzon and Ruehle (1975), **Ruehle** (1975), **Sanger** (1974), **Sowls** (1975), **Trapp** (1975), Warner (1975), and Warner and **Guzmann** (1975). Aerial surveys within this region are reported by Bailey (1975), Haddock and Benson (1975), and Lensink, et al. (1976) .

BIRDS OF SOUTHEAST ALASKA

Published Information

It would appear that ornithologists for the most part bypassed Southeast Alaska enroute to arctic and subarctic portions of the state. Perhaps the spruce-hemlock forests and associated **avifauna** were too much akin to that extending southward along the coast to Oregon to capture the interest of those seeking the "unusual." Grinnell (1897a, b, 1898, 1909) provides the most comprehensive treatment of the region's **avifauna**. In a regional profile Selkregg ([1976]) cursorily treats the birds but lists in a selected bibliography most of the more significant published and unpublished references on the subject. Local and species specific accounts of birds were published by Hansen (1962), Heath (1915), Webster (1942, 1950), Willet (1912-32), Welch (1965), King, et al. (1972), White, et al. (1976) and Sealy (1973).

Pelagic observations of birds off the southeastern coast are lacking. Myres (1972) did, however, make radar observations of migration across this region into the Gulf of Alaska.

Unpublished Information

As with **the** published literature, there is comparatively less unpublished information on birds in this region than for other coastal regions. Gibson (1976), Gibson **and** MacDonald (1975), and **Ritchie** (1974) provide information on birds in general in this region. **Imler** (1941), **Corr** (1969, 1974) and **Robards** and King (1966) describe eagle populations and discuss certain timber management practices as related to nesting birds.

Birds of the Glacier Bay National Monument have been described by Jacot (1962), Wik (**1967**) and Patten and Patten (1975).

Nelson (1950) describes the food plants of waterfowl on the Stikine River delta.

Wilderness study reports (**U.S.D.I.** 1967) for the Forrester Island, Hazy Island, and St. **Lazaria** Island National Wildlife Refuges contain a review of most information on important seabird colonies and includes some original information.

Shipboard observations of birds in the waters of southeastern Alaska and offshore include those by Benson and Timson (1975), Forsell (1976a, b), Frazer and Hardy (1976), Handel and Benson (1975), Hardy and Nysewander (1976), Hatch and **Rauzon** (1975),

Henderson (1975b), Isleib and Eberhart (1975), Kirchhoff and Rauzon (1975), Nysewander (1975), Phillips, et al. (1976), Rauzon (1976b), Sowls (1975), Warner (1975), and Warner and Guzmann (1975). There are no reported aerial surveys of birds **at sea** in this region.

CONSERVATION ISSUES

There have been a few published papers pertaining to the conservation of birds in the coastal and marine environment including those by **Sowls** and Bartonek (1974), Bartonek, et al. (1971), King (1973), and King, et al. (1976). Oil contamination of birds in the coastal environment is discussed by Evans (1969), Anonymous (1968, 1970), Vermeer (1976), and Vermeer and **Anweiler** (1975), and assessment of impacts on marine birds from OCS oil and gas development in Alaska is discussed in U.S.D.I. (1976a, b, 1977), as is organochlorines by **Ohlendorf**, et al. (1975). Gabrielson (1952), LeResche and Hinman (1973), and U.S.D.I. (1973) identify the desireability of protecting coastal bird habitat. The accidental gill netting of birds is discussed by **Sanger** (1976).

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